Contents Volume 39 (1988)

Vol. 39, No. 1 (October 1988)

Polypropylene dialysis membrane prepared by cobalt-60 gamma-radiation-induced graft copolymerization
Fang Yuee and Shi Tianyi (Hefei, Anhui, P.R. China) 1
Mechanics and thermodynamics in membrane permeation
B. Tomicki (Wrocław, Poland) 11
Membranes and modules for transmembrane distillation
K. Schneider, W. Hölz, R. Wollbeck (Obernburg, F.R.G.) and S. Ripperger (Wuppertal, F.R.G.) 25
The calculation of permeation rates through supported liquid membranes based on the kinetics of liquid–liquid extraction
P. Plucinski and W. Nitsch (Garching, F.R.G.) 43
Ternary gas separation using two different membranes
A. Sengupta and K.K. Sirkar (Hobroken, NJ, U.S.A.) 61
Characterization of electric charges in microporous membranes
C.K. Lee and J. Hong (Chicago, IL, U.S.A.) 79
Short Communication
Further considerations of the mechanism of gas diffusion in glassy polymer films
E. Sada, H. Kumazawa and P. Xu (Kyoto, Japan) 89
Book Review 93
Meetings Calendar 97

Vol. 39, No. 2 (November 1988)

Solute transport characteristics in hemodiafiltration
Yen-Lin Chang and Chau-Jen Lee (Hsinchu, Taiwan) 99
Selective separation of cyclohexane–cyclohexanone–cyclohexanol mixtures through poly(*N*-vinylpyrrolidone-co-acrylonitrile) membrane
T. Shimidzu and H. Okushita (Kyoto, Japan) 113
Fluid dynamics of dilute suspensions and fouling of tubular membrane modules
S. Ilias and R. Govind (Cincinnati, OH, U.S.A.) 125
A parametric study of recycle membrane separators
Y.-K. Kao (Cincinnati, OH, U.S.A.) 143
Global model of crossflow microfiltration based on hydrodynamic particle diffusion
C.A. Romero and R.H. Davis (Boulder, CO, U.S.A.) 157
Effect of solution viscosity on ultrafiltration flux
Wang Shu-Sen (Beijing, China) 187
Meetings Calendar 195

Vol. 39, No. 3 (December 1988)

Guest Editorial 197
Inorganic membranes obtained by sol–gel techniques
A. Larbot, J.P. Fabre, C. Guizard and L. Cot (Montpellier, France) 203
Pore structures of sol–gel silica membranes
L.C. Klein and D. Gallagher (Piscataway, NJ, U.S.A.) 213
Microporous alumina membranes
H.P. Hsieh, R.R. Bhave and H.L. Fleming (Alcoa Center, PA, U.S.A.) 221
Titania and alumina ceramic membranes
M.A. Anderson, M.J. Gieselmann and Q. Xu (Madison, WI, U.S.A.) 243
Characterization studies of ceramic membranes. A novel technique using a coulter porometer
K. Venkataraman, W.T. Choate, E.R. Torre, R.D. Husung (Worcester, MA, U.S.A.) and H.R. Batchu (Hialeah, FL, U.S.A.) 259
Molecularly-bonded metal microfiltration membrane
P.A. Minneci and D.J. Paulson (Minnetonka, MN, U.S.A.) 273
Gas separation mechanisms in microporous modified γ-Al_2O_3 membranes
K. Keizer, R.J.R. Uhlhorn, R.J. Van Vuren and A.J. Burggraaf (Enschede, The Netherlands) 285
Separation of gaseous mixtures of CO_2 and CH_4 using a composite microporous glass membrane on ceramic tubing
M. Niwa, H. Ohya, Y. Tanaka, N. Yoshikawa, K. Matsumoto and Y. Negishi (Yokohama, Japan) 301
Meetings Calendar 315
Author Index Volume 39 (1988) 317
Contents Volume 39 (1988) 318